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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	A TEODNIEW DO THE		
09/488,351	01/20/2000		ATTORNEY DOCKET NO.	CONFIRMATION NO.	
02.100,301		Terry L. Cole	2000.023000	4297	
23720 WILLIAMS N	7590 05/15/2007				
10333 RICHMA	IORGAN & AMERSON OND, SUITE 1100		EXAM	EXAMINER	
HOUSTON, T	X 77042		AHN, SAM K		
			ART UNIT	PAPER NUMBER	
			2611		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)			
Office Action Commence	09/488,351	COLE, TERRY L.			
Office Action Summary	Examiner	Art Unit			
	Sam K. Ahn	2611			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status	·				
1) Responsive to communication(s) filed on 27 Fe	ebruary 2007.	· ,			
	action is non-final.				
3) Since this application is in condition for allowar					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
 4) Claim(s) 2-32,35 and 36 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 2-32,35 and 36 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 					
Application Papers					
9) ☐ The specification is objected to by the Examine 10) ☑ The drawing(s) filed on 20 January 2000 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Ex	a) \square accepted or b) \square objected drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received I (PCT Rule 17.2(a)).	on No ed in this National Stage			
	••				
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te			
S. Patent and Trademark Office					

DETAILED ACTION

Response to Arguments

1. Applicant's arguments, see p.2, filed 02/27/07, with respect to the rejection(s) of claim(s) 2-32,35 and 36 under 103(a) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Samson US 5,881,102.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 2, 3, 5, 6, 11-14, 16,17, 21-25, 28, 29, 35 and 36 are rejected under 35
 U.S.C. 103(a) as being unpatentable over Samson US 5,881,102 and Wiese et al.
 US 6,434,119 B1 (Wiese, cited previously).

Regarding claim 1, Samson teaches establishing a communication channel between a first transceiver and a second transceiver (see Fig.3) in low power mode (note c.4, l.29 and c.6, l.14-24); determining at the first transceiver, a training parameter (training such by flagging for software or through flip flop for hardware, low power state can be achieved wherein some of the modem's functions are shut down, note c.4, l.29-31), performing training, at the first transceiver, based at least on the training parameter (note c.6, l.33-35 wherein

the modem is switched to low power mode and note c.4, I.29-31wherein when low power mode, training is performed by shutting down some of the functions); and providing the training parameter that is used in training of the first transceiver to the second transceiver (note c.5, I.51-53 sending state signal to the second transceiver). However, Samson does not explicitly teach the training parameter is determined in response to establishing the communication channel in the low power mode.

Wiese teaches, in the same field of endeavor, a method and apparatus comprising establishing a communication channel between a first transceiver and a second transceiver in low power mode, (note col.6, lines 16-33) wherein Wiese teaches transmission of an initialization signal at a lower power level or in a low power mode, and increasing the power level until the signal is received by the other transceiver.

Hence both Samson and Wiese teach establishing communication between two transceivers in low power mode, wherein Wiese further suggests increasing the power level of transmission until signal is received. Therefore, it would have been obvious to one skilled in the art at the time of the invention to initialize the communication channel in low power in the system of Samson for the purpose of reducing power consumption and potentially minimize interference with other modem lines that may be affected as noise when high powered signaling is performed, as taught by Wiese (note col.6, lines 16-33).

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Regarding claim 3, Wiese further teaches wherein transmission of remote initialization signal at a relatively low power level and incrementing until the signal is detected. (note col.6, lines 16-30) Therefore, it is inherent that the increment of level of power taught by Wiese is the smallest amount of power acceptable, since the signal is acceptable only after it has been detected.

Regarding claim 5, Wiese further teaches computation of signal to noise ratio for determining the training parameter. (note claim 10) Signal to noise ratio includes determination of phase and amplitude distortion, and therefore it is inherent that the training parameters include determining phase and amplitude distortion of the communication channel.

Regarding claim 6, the claim is rejected as applied to claim 5 with similar scope.

Regarding claim 11, Wiese further teaches providing a training parameter to the first transceiver by the second transceiver. (see 239, 243 in Fig.5 and note col.9, lines 20-36)

Regarding claim 12, the claim is rejected as applied to claim 2 with similar scope.

Regarding claim 13, Samson in view of Wiese teach all subject matter claimed,
as applied to claim 12. Wiese further teaches transmitting and receiving data
with the transceiver (VTU-R) (see Fig.5).

Regarding claim 14, the claim is rejected as applied to claim 3 with similar scope.

Regarding claim 16, the claim is rejected as applied to claim 5 with similar scope.

Regarding claim 17, the claim is rejected as applied to claim 5 with similar scope.

Regarding claim 21, the claim is rejected as applied to claim 2 with similar scope.

Regarding claim 23, the claim is rejected as applied to claim 22 with similar scope.

Regarding claim 24, the claim is rejected as applied to claim 3 with similar scope.

Regarding claim 25, the claim is rejected as applied to claim 5 with similar scope.

Regarding claim 28, the claim is rejected as applied to claim 2 with similar scope.

Regarding claim 29, the claim is rejected as applied to claim 3 with similar scope.

Regarding claim 35, the claim is rejected as applied to claim 2 with similar scope.

Regarding claim 36, the claim is rejected as applied to claim 2 with similar scope.

 Claims 4, 15 and 30-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Samson US 5,881,102 and Wiese et al. US 6,434,119 B1 (Wiese, cited previously) and Palm US 6,751,254 B1 (cited previously).

Regarding claim 4, Samson in view of Wiese teach all subject matter claimed, as applied to claims 2 or 13, however, do not explicitly disclose power cutback in the range of 0-30 dB.

Palm teaches power adjustments wherein during initialization, power levels are incremented in the increments of 2 dB, a predetermined level. (note col.6, lines

27-43) Therefore, it would have been obvious to one skilled in the art at the time of the invention to implement Wiese's teaching of initializing the communication channel in low power mode by incrementing in 2 dB, as taught by Palm, for the purpose of appropriately incrementing, without incrementing too rapidly, nor incrementing too slowly, and establish connection.

Regarding claim 15, the claim is rejected as applied to claim 4 with similar scope.

Regarding claim 30, the claim is rejected as applied to claim 4 with similar scope.

Regarding claim 31, the claim is rejected as applied to claim 4 with similar scope.

Regarding claim 32, the claim is rejected as applied to claim 4 with similar scope.

 Claims 7-10,18-20,26 and 27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Samson US 5,881,102 and Wiese et al. US 6,434,119 B1 (Wiese, cited previously) and Olafsson USP 5,870,438 (cited previously).

Regarding claim 7, Samson in view of Wiese teach all subject matter claimed, as applied to claim 2,17 or 25, however, do not explicitly teach wherein determining the training parameter includes a transmitter characteristic of the second transceiver including a symbol timing, carrier frequency, and carrier phase of the transmitter.

Olafsson teaches fast synchronization in a modem, and further teaches wherein the training parameter includes the transmitter characteristic of a symbol timing, carrier frequency, and carrier phase of the transmitter (note col.1, lines 29-37). Application/Control Number: 09/488,351

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Therefore, it would have been obvious to one skilled in the art at the time of the invention to include the training parameters taught by Olafsson in Samson in view of Wiese's training parameter for the purpose of increasing data transmission at a high data rate (note col.1, lines 37-39).

Regarding claim 8, the claim is rejected as applied to claim 7 with similar scope.

Regarding claim 9, the claim is rejected as applied to claim 7 with similar scope.

Regarding claim 10, the claim is rejected as applied to claim 7 with similar scope.

Regarding claim 18, the claim is rejected as applied to claim 7 with similar scope.

Regarding claim 19, the claim is rejected as applied to claim 7 with similar scope.

Regarding claim 20, the claim is rejected as applied to claim 7 with similar scope.

Regarding claim 26, the claim is rejected as applied to claim 7 with similar scope.

Regarding claim 27, the claim is rejected as applied to claim 7 with similar scope.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Sam Ahn whose telephone number is (571) 272-3044. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mohammad Ghayour can be reached on (571) 272-3021. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Sam K. Ahn Patent Examiner

5/10/07